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Amendment to the Claims:

The listing of the claims will replace all prior listings of claims in the application.

Listing of Claims

- 1. (Currently Amended) A motion picture pseudo contour correcting method comprising the steps of:
- (a) detecting a gray level shift from a focused pixel in a frame of a motion picture to an adjacent pixel in the frame, as gray level information of the focused pixel;
- (b) detecting a motion vector indicative of a speed and a direction of motion of a picture from the focused pixel to another pixel, as motion information of the focused pixel; and
- (c) classifying a plurality of motion picture pseudo contour correction patterns according to the respective gray level information of the focused pixel and adjacent pixel, and the motion information; and

generating a correction gray level signal using <u>one of a plurality of</u> logical formulae, <u>wherein each logical formula is</u> formularized for each <u>of said plurality of</u> motion picture pseudo contour <u>generation pattern</u> <u>correction patterns</u>.

2. (Currently Amended) The motion picture pseudo contour correcting method as set forth in claim 1, wherein further comprising:

said step (a) includes a sub-step (d) of selecting a correction pattern from among a the plurality of correction patterns, based on the gray level information detected, and the logical formulae being determined for each of the correction patterns; and

said step (c) includes the sub-steps of:

- (e) determining the correction gray level signal by selecting a the logical formula corresponding to the correction pattern selected at said sub-step (d); and
- (f) generating the corrected gray level signal by synthesizing the correction gray level signal determined at said sub-step (e) and the <u>an</u> original signal.

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3. (Currently Amended) The motion picture pseudo contour correcting method as set

forth in claim 2, wherein in said sub-step (e), the correction gray level signals are generated

with respect to prospective corrected pixels in which pixels affected by the motion vector are

selected as prospective corrected pixels, among pixels that the motion vector passes, and

correction gray level signals are generated with respect to the prospective corrected pixels.

4. (Original) The motion picture pseudo contour correcting method as set forth in

claim 3, wherein at most 4 prospective corrected pixels are selected.

5. (Canceled)

6. (Canceled)

7. (Currently Amended) A motion picture pseudo contour correcting method in a

gray level display method that utilizes at least a time division method in which one field

period or one frame period in image display is divided into a plurality of sub-fields, said

motion picture pseudo contour correcting method comprising the steps of:

classifying a plurality of motion picture pseudo contour correction patterns in

accordance with gray level information of a focused pixel of a picture in a certain field or a

frame, gray level information of a pixel adjacent to the focused pixel in the same field or in

the same frame, and picture motion information detected regarding the picture of the field

or the frame;

generating a motion picture pseudo contour correction-use signal according to one

of a plurality of formulae, wherein each formula is formularized for each of said plurality of

motion picture pseudo contour correction patterns generation pattern based on the

generation patterns classified in accordance with gray level information of a focused pixel

of a picture in a certain field or a frame, gray level information of a pixel adjacent to the

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focused pixel in the same field or in the same frame, and picture motion information

detected regarding the picture of the field or the frame; and

outputting the motion picture pseudo contour correction-use signal with respect to an

original signal of the picture of the field or the frame.

8. (Canceled)

9. (Original) The motion picture pseudo contour correcting method as set forth in

claim 7, wherein the motion picture pseudo contour correction-use signal is generated with

respect to not less than one pixel selected, according to a magnitude of a motion picture

pseudo contour generated, from among a plurality of pixels arranged from the focused pixel

in a direction of the motion of the picture.

10. (Original) The motion picture pseudo contour correcting method as set forth in

claim 7, wherein the time division method is used in combination with a pixel division

method in which one pixel is composed of a plurality of sub-pixels.

11. (Original) The motion picture pseudo contour correcting method as set forth in

claim 7, wherein at most 4 pixels are selected, according to a magnitude of a motion picture

pseudo contour generated, from among a plurality of pixels arranged from the focused pixel

in a direction of the motion of the picture.

12. (Canceled)

13. (Currently Amended) A motion picture pseudo contour correcting method in a

gray level display method that utilizes at least a time division method in which one field

period or one frame period in image display is divided into a plurality of sub-fields, said

motion picture pseudo contour correcting method involving generating a motion picture

pseudo contour correction-use signal according to gray level information of a focused pixel

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of a picture in a certain field or a frame, gray level information of a pixel adjacent to the

focused pixel in the same field or in the same frame, and picture motion information

detected regarding the picture of the field or the frame, said motion picture pseudo contour

correcting method comprising the steps of:

generating the motion picture pseudo contour correction-use signal using one of a

plurality of formulae, wherein each formula is formularized for each group of gray level

shifts between the focused pixel and the adjacent pixel, in order to generate the motion

picture pseudo contour correction-use signal using the same computation with respect to

gray level shifts of the same group; and

outputting the motion picture pseudo contour correction-use signal to an original

signal of the picture of the field or the frame.

14. (Original) The motion picture pseudo contour correcting method as set forth in

claim 7, wherein the detected motion information of the picture is divided into components

in two directions crossing on a screen, and the motion picture pseudo contour correction-

use signal is generated as to at least one of the two components.

15. (Currently Amended) An image display device comprising:

a gray level information detecting section for detecting a gray level shift from a

focused pixel to an adjacent pixel as gray level information of the focused pixel;

a motion information detecting section for detecting a motion vector indicative of a

speed and a direction of a picture when the picture moves from the focused pixel to another

pixel, as motion information of the focused pixel; and

a classification section for classifying a plurality of motion picture pseudo contour

correction patterns according to the respective gray level information of the focused pixel

and adjacent pixel, and the motion information; and

a computing section for generating a correction gray level signal using one of a

plurality of logical formulae, wherein each logical formula is formularized for each of said

plurality of motion picture pseudo contour correction patterns generation pattern based on

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the generation patterns classified according to the respective gray level information of the

focused pixel and adjacent pixel, and the motion information.

16. (Currently Amended) The image display device as set forth in claim 15, further

comprising:

a signal inserting section for generating a corrected gray level signal by synthesizing

the correction gray level signal determined by said computing section and an original signal

of the picture,

wherein:

said gray level information detecting section selects a correction pattern from among

a the plurality of correction patterns, according to the gray level information detected, the

logical formulae being determined for each of the correction patterns; and

said computing section determines the correction gray level signal by computing

according to logical formulae corresponding to the correction pattern selected.

17. (Canceled)

18. (Currently Amended) An image display device that executes gray-scale display

by adopting at least the time division method in which one field period or one frame period

in image display is divided into a plurality of sub-fields, said image display device

comprising:

a gray level information detecting section for detecting gray level information of a

focused pixel in a picture of a certain field or frame, and gray level information of a pixel

adjacent to the focused pixel in the same field or in the same frame;

a motion information detection section for detecting motion information of the picture in

the field or the frame:

a classification section for classifying a plurality of motion picture pseudo contour

correction patterns according to the respective detected gray level information of the

focused pixel and adjacent pixel, and the detected motion information;

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a correction-use signal generating section for generating a motion picture pseudo

contour correction-use signal using one of a plurality of logical formulae, wherein each

logical formula is formularized for each of said plurality of motion picture pseudo contour

correction patterns generation pattern based on the generation patterns classified

according to the respective detected gray level information of the focused pixel and

adjacent pixel, and the detected motion information; and

a signal inserting section for outputting the motion picture pseudo contour correction-

use signal to an original signal of the picture of the field or the frame.

19. (Canceled)

20. (Canceled)

21. (Currently Amended) An image display device that executes gray-scale display

by adopting at least the time division method in which one field period or one frame period

in image display is divided into a plurality of sub-fields, said image display device

comprising:

a gray level information detecting section for detecting gray level information of a

focused pixel of a picture in a certain field or a frame and gray level information of a pixel

adjacent to the focused pixel in the same field or in the same frame;

a motion information detecting section for detecting motion information of the picture

in the field or the frame;

a correction-use signal generating section for generating a motion picture pseudo

contour correction-use signal according to the respective detected gray level information of

the focused pixel and adjacent pixel, and the detected motion information, gray level shifts

between the focused pixel and the adjacent pixel being grouped, the correction-use signal

generating section generating the motion picture pseudo contour correction-use signal in

accordance with a plurality of formulae, wherein each formula is formularized for each

group of the gray level shifts, in order to generate the motion picture pseudo contour

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correction-use signal using the same computation with respect to gray level shifts of the same group; and

a signal inserting section for outputting the motion picture pseudo contour correctionuse signal to an original signal of the picture of the field or the frame.